OTHKK WASTE UKAT BOILKII

DATA

Test Number	1*	»>	3	4
Plant	111. St. (Jo.	Indian a St. Co.	Beth-lehem Co.	Lacka-wanna Steel Co.
Rated furnace capacity, tons.	<>I> 72.1	75 85	80 82 (i	00.00
Type, of boiler .	Stirlin	Hunt	B & W	B <fe
Boiler hunting surface, Kq m.	371.0 9 . 70	453.3 9. SO	480.0	502.3
Steam pressure ab.Holute, kg	71 00	9S 00		
HUH at boiler inlet	004 00	024 00	730 00	530 00
(»iis at boil(»r outlet	327 00	277 00	250 00	242 00
Drop *in* temperature.	337.00	347.00	483.00	288.00
.....		37 00	30 00	45 00
Outlet		100 00	83 00	92 5
Draft- IOHH in boiler	•15.2	03 00	44 00	47 5
Weight of KIIH passing; through boiler,	<) 22	10 00	0 50	10 00

NOH. 1, 2 and 3 from (•. J. Bacon'H paper at 1915 meeting of the American Iron and Steel Institute*.

Tiwt No. 4, Arthur **I).** Prati, American Society of Mechanical Kn$ineerB, December, 1910.

The following method of arriving at the amount of boiler-heating surface required for absorbing the waste heat from an open-hearth furnace[1] is simply an extension of the method used by the author in arriving at the regenerator capacity required and reference taunt be made to the heat-capacity curves given in the preceding .section of this work.

In practice it might l>e desirable to divide* this heating surface between an economizer or feed-water heating section and a boiler or steam-producing section. Thin method of construction will result in a reduction of the size of the; boiler and its cost, and possibly may reduce the total cost of the installation. When the cost of the* foundations arid other structure required to install the*, economizer in considered it is probable that the